

Observations of Comet d 1907, from photographs taken with the 30-in. Reflector of the Thompson Equatorial and the Astrographic 13-in. Refractor at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The following positions of Comet d 1907 were obtained from photographs taken with the 30-in. reflector and the astrographic 13-in. refractor, with exposures of from 20 seconds to 3 minutes.

The plates were measured in the astrographic micrometer. Six reference stars were, as a rule, measured with the comet, their positions being derived from the Catalogues of the Astronomische Gesellschaft.

The positions given are not corrected for Parallax.

Log Parallax Correction = log Parallax Factor - log Δ .

Date and G.M.T. 1907.				Apparent R.A.	Apparent Dec.	Log Parallax Factor R.A.	Dec.
30-in. Reflector.							
	d	h	m	s	h	m	s
June 19	14	3	1	0 16	32° 60'	+ 1 14	10° 8'
July 4	14	15	1	1 14	23° 48'	5 49	54° 7'
4	14	18	47	1 14	24° 23'	5 49	57° 5'
16	14	11	38	2 22	8° 84'	10 28	11° 1'
24	14	14	19	3 22	19° 51'	13 42	0° 7'
30	14	47	11	4 15	15° 97'	15 44	19° 6'
31	14	34	8	4 24	26° 04'	16 0	37° 8'
Aug. 1	14	59	5	4 33	56° 40'	16 16	0° 5'
6	14	57	39	5 21	17° 16'	17 8	57° 3'
10	15	12	37	5 58	53° 15'	17 22	59° 5'
11	15	18	16	6 8	5° 99'	17 22	42° 7'
12	15	18	36	6 17	10° 80'	17 20	58° 7'
15	15	32	32	6 43	45° 84'	17 7	56° 9'
18	15	37	17	7 9	6° 29'	+ 16 44	44° 8'

Astrographic 13-in. Refractor.

20	15	46	44	7 25	20° 77'	+ 16 24	19° 4'	- 9° 581	+ 0° 811
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*Royal Observatory, Greenwich :
1907 December 12.*

Dec. 1907. Photographs of Phœbe.—Occultations of Uranus. 127

Note on Photographs of Phœbe, taken at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

Photographs of Phœbe have been obtained with the 30-in. reflector on 16 nights, viz.—

1907 Aug. 10	Exp. ^m 105	1907 Oct. 2	Exp. ^m 90
11	133	4	120
18	143	8	53
19	120	12	90
29	93	30	100
Sept. 2	53	Dec. 3	120
9	107	5	120
10	70	6	90

The photograph on October 30 was at or very near elongation, and will thus be of special value for a determination of the mass of Saturn, for which this satellite is peculiarly useful, its distance at elongation being about 28'—three times that of Iapetus.

Royal Observatory, Greenwich:
1907 December 13.

Occultations of Uranus by the Moon in 1908, visible at British Observatories. By A. M. W. Downing, D.Sc., F.R.S.

It is hoped that the publication of the following particulars will enable astronomers who are favourably situated to observe some at least of these interesting phenomena, noting any peculiarities of appearance of the planet at the time of occultation that may strike them.

Day. 1908.	Place.	Standard Mean Time of Place.		Angle from North Point.	
		Immersion.	Emersion.	Immersion.	Emersion.
		h m	h m	°	°
April 22	Adelaide ...	10 53	11 46	106	266
„	Melbourne ...	11 25	12 20	106	266
„	Sydney ...	11 20	12 18	88	284
„	Wellington ...	13 10	14 18	81	288
May 19	Natal... ..	8 44	9 29	64	308
July 13	Perth, W.A. ...	5 41	6 35	99	275
„	Adelaide ...	7 19	8 19	78	296
„	Melbourne ...	7 57	8 59	79	293
„	Sydney ...	8 3	8 57	58	315
„	Wellington ...	10 11	11 19	62	299
Aug. 9	Cape of Good Hope...	10 4	10 55	37	321
Oct. 3	Wellington ...	12 20	13 7	58	287

1907 December 6.